

<p>96-506193/50 A82 EI7 G02 M14 (A14) HENK 95.05.06 HENKEL KGAA *WO 9634995-A1 95.05.06 95DE-1016765 (96.11.07) C23C 22/20, 22/42, 22/47 Producing conversion coatings on zinc or aluminium surfaces - using solutions free from chromium and fluorine to avoid pollution problems (Ger) C96-158873 N(AU CA JP MX US) R(AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE) Addnl. Data: KUHM P, JOPPEN M, SEIDEL R, KUEPPER S 96.04.29 96WO-EP01786</p>	<p>Solution of producing conversion coatings on Zn or Al surfaces contain 0.03-3 g/l organic film-forming agent which is soluble or homogeneously dispersible in water; 0.1-6 Al ions in the form of a water soluble complex with carboxylic and/or hydroxycarboxylic acid capable of forming 5 or 6 ring chelate complexes; and 0.5-20 phosphoric acid. Pref. film forming agent is a carboxyl contg. polymer.</p> <p><u>USE</u> Forming conversion coatings in Zn or Al surfaces.</p> <p><u>ADVANTAGE</u> Solution is free from Cl and F ions and therefore avoids the</p>
<p>A(12-B4) E(10-A7, 10-C2A, 10-C2D1, 10-C2D2, 10-C2F, 10-C4D4, 31-K5A) G(2-A5, 2-A5E) M(14-D)</p> <p>problems of pollution.</p> <p><u>PREFERRED SOLUTION</u> The solution contains 0.05-2 g/l organic film-forming agent; 9.2-4 Al ions with (hydroxy) carboxylic acid; and 1-15 phosphoric acid. The film-forming agent is a carboxyl group containing polymer such as a homo and/or copolymer of acrylic and/or methacrylic acid with a mol. weight of 20000-150000. The solution may contain nitric acid and the (hydro) carboxylic acid is chosen from oxalic, lactic, malic, citric, tartaric and/or gluconic acid. The solution may also contain 1-6 g/l six-valent W. The solution temperature is 15-50°C and is applied to an amount of 3-10 ml/mm² to the surface before being dried at 50-125°C.. (RP) (21pp1678DwgNo.0/0) SR:2.Jnl.Ref EP15020 JP1116085 JP54056039 US4247344 WO9208822</p>	<p>WO 9634995-A</p>